

Application Serial No. 10/583,881
Reply to Office Action of May 18, 2010

SEP 17 2010 PATENT
Docket: CU-4891

Amendments to the Claims

The listing of claims presented below replaces all prior versions, and listings, of claims in the application.

Applicant wishes to make the following amendments to the claims of the above patent application:

Listing of Claims

1.-6. (cancelled)

7. (currently amended) A method of recovering a base paper for gypsum board, which is configured to recover a base paper for gypsum board from a waste material of gypsum board comprising a gypsum core and the base paper for gypsum board adhering thereto, comprising the steps of
breaking the waste material of gypsum board,
separating a gypsum component and a paper piece of the base paper for gypsum board from the broken waste material of gypsum board, and
washing the separated paper piece with water in a rotary drum-type washing device so as to eliminate a gypsum component adhering to the paper piece from the paper piece, and further comprising a step of
previously dispersing or mixing the separated paper piece into a portion of washing water before the separated paper piece is introduced to the rotary drum-type washing device, and
dewatering the water-washed paper piece wherein the step of dewatering the paper piece comprises squeezing and dewatering of the water-washed paper piece,
wherein the rotary drum-type washing device comprises a paper piece inlet at one end of rotatably lying air and water through-flow drum and a paper piece outlet at the other end thereof and is capable of supplying washing water to a paper piece in the air and water through-flow drum.

~~The method of recovering a base paper for gypsum board as claimed in claim 3, wherein the step of dewatering the paper piece comprises squeezing and dewatering of the water-washed paper piece.~~

8.-10. (cancelled)

11. (currently amended) ~~The apparatus of recovering a base paper for gypsum~~

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~~board as claimed in claim 8.~~ An apparatus of recovering a base paper for
gypsum board, comprising

a device configured to break a waste material of gypsum board,

a device configured to separate a burnt gypsum component and a paper
piece from the broken waste material of gypsum board,

a rotary drum-type washing device configured to wash the separated paper
piece with water so as to eliminate a burnt gypsum component adhering to the
paper piece from the paper piece, and

a device configured to dewater the water-washed paper piece, and further
having

a device configured to disperse or mix the separated paper piece into water
before washing the separated paper piece with water,

wherein the rotary drum-type washing device comprises a paper piece inlet at
one end of rotatably lying air and water through-flow drum and a paper piece
outlet at the other end thereof and is capable of supplying washing water to a
paper piece in the air and water through-flow drum,

wherein the dewatering device is a device configured to squeeze and dewater
the water-washed paper piece.

12.-13. (cancelled)